

On the ranks of idempotent matrices over skew semifields

Il'in S.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

As is well known, every positive idempotent matrix is of rank 1. It is proved that idempotent matrices without zeros have this property over many skew semifields, and all these skew semifields are described. © 2012 Pleiades Publishing, Ltd.

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Keywords

(weakly) additively cancellable skew semifield, (weakly) additively idempotent skew semifield, idempotent matrix, rank, skew semifield